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EXAMINER

ROSWELL, MICHAEL

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ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 09/873,163	Applicant(s) OLSON ET AL.	
	Examiner MICHAEL ROSWELL	Art Unit 2173	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 September 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17, 20, 22-30 and 32-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17, 20, 22-30 and 32-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This Office action is in response to the amendment to the claims filed 27 September 2010.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-17, 20, 23-30, and 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meyer et al (US Patent 5,742,504), hereinafter Meyer, in view of Van Dort et al (US Patent 5,537,104), hereinafter Van Dort, and further in view of Silver et al (US Patent 6,931,602), hereinafter Silver, further evidenced by Matrix Vision (<http://www.matrix-vision.com/news/print.php?ProductID=10&lang=en>), and further in view of Guha et al (US Patent 6,750,466), hereinafter Guha.

Regarding claim 1, Meyer teaches a machine vision system having a plurality of vision processors (VPs), each being on a respective VP computing platform (taught as the connection of a plurality of digital cameras to a machine vision system, at col. 4, lines 26-28; Meyer also allows for the use of various vision processors and frame grabbers at col. 2, lines 60-61), at least one machine vision user interface (UI) being on a machine vision UI computing platform (taught as the use of a Visual Basic toolbox presented to the user on a machine separate from the VPs for allowing the user control and selective communication with the multiple VPs in the machine vision system and for the viewing of live and still images from those VPs, at col. 4, lines 54-63, and col. 5, lines 4-5 and 15-20). Meyer also teaches a link function enabling a user to configure any second VP using the machine vision UI (taught as the camera control of col. 5,

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lines 57-67), and for establishing communication between a second VP in the machine vision system and the machine vision UI (taught as the linking of a camera to a Camera control, at col. 6, lines 10-16). Meyer further teaches enabling communication via the network established by the link function enabling a continually updated image display on the at least one machine vision UI representing a current state of a second VP in the machine vision system (taught as the display of live images, at col. 6, lines 10-18). Matrix Vision teaches the use of digital cameras similar to those used by Meyer, with the digital cameras incorporating processor power for the purpose of integrated processing.

Meyer fails to explicitly teach providing a first VP with a link function, the link function being a control function executable by the first VP, and executing the link function so as to issue instructions from the first VP to the UI to establish communication with a second VP.

Van Dort teaches a system for equipment control wherein various units are linked over a common communication channel, which the user may interact with by way of a graphic interface connected to the system. Van Dort allows for the control of audio and video equipment at col. 1, lines 21-25. Furthermore, Van Dort teaches executing a link function so as to issue instructions from a first equipment unit to a UI to establish communication with a second equipment unit (taught as the use of an actuator connected to equipment in the system, wherein a change of state in the actuator sends a signal out to other equipment units, which may change their state in a way contained by the signal, at col. 5, lines 55-64). Furthermore, the graphic interface of Van Dort may be used to generate “mark” and “link” signals between devices, as shown at col. 10, lines 24-28.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer and Van Dort before him at the time the invention was made to modify the machine vision system of Meyer to include the equipment message transmission of Van Dort in

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order to obtain a machine vision system wherein VPs may send link functions capable of changing the state of other VPs.

One would be motivated to make such a combination for the advantage of flexible configuration for interactions between different pieces of equipment in a system. See Van Dort, col. 1, lines 15-18.

However, Meyer and Van Dort fail to explicitly teach the communication of the plurality of VPs and the UI over a network, necessitating that the VPs and the UI are distinct and separate and disposed on distinct and separate computing platforms. Silver teaches a method for the control of machine vision tools similar to that of Meyer and Van Dort. Furthermore, Silver teaches the communication of a plurality of VPs and a UI over a network, at col. 2, line 50 through col. 3, line 15. As Silver allows the communication of the VPs and the UI over a network, the fact that the VPs and the UI may be remotely located from one another allows for the VPs, UI and computing platforms to be distinct and separate from one another.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer, Van Dort, and Silver before him to modify the machine vision system of Meyer and Van Dort to include the networked communication of Silver. One would have been motivated to make such a combination for the advantage of increased accessibility to multiple vision processor systems. See Silver, col. 1, lines 40-46.

Meyer, Van Dort, and Silver fail to explicitly teach performing at least part of a machine vision task configured by the at least one distinct and separate machine vision UI, using at least one of the first distinct and separate VP and the any second distinct and separate VP, in accordance with the instructions issued by the first distinct and separate VP upon execution of the link function.

Guha teaches a web inspection system that utilizes multiple “smart cameras” similar to the vision processors of Meyer, Van Dort, and Silver. Furthermore, Guha teaches the use of pipeline vision processors that are capable of sending control signals from one smart camera to the next. See Guha, Fig. 10, col. 5, lines 19-39 and col. 1, lines 20-53.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer, Van Dort, Silver, and Guha before him at the time the invention was made to modify the vision processors of Meyer, Van Dort, and Silver to include the pipeline processing of Guha, in order to obtain vision processors capable of performing at least part of a machine vision task configured by the at least one distinct and separate machine vision UI, using at least one of the first distinct and separate VP and the any second distinct and separate VP, in accordance with the instructions issued by the first distinct and separate VP upon execution of the link function. One would have been motivated to make such a combination for the advantage of providing a balanced and robust image analysis system. See Guha, col. 2, lines 39-42.

Regarding claim 2, Van Dort teaches a control function having a plurality of parameters, including an identifier of a second VP, taught as the use of an event table enabling response to a multitude of events, and destination addresses in the table to facilitate communication between devices, at col. 6, lines 43-53.

Regarding claim 3, Meyer teaches clicking on a graphical representation of the link function displayed by the machine vision UI, taught as the manipulation of control icons, taught at col. 6, lines 13-17.

Regarding claims 4, 25, and 28, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the graphical representation of Meyer to include selectable underlined text strings. Applicant has not disclosed that underlined text strings provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with the iconic representations of Meyer because both graphical representations involve "point and click" functionality, and produce the same end result.

Therefore, it would have been obvious to one of ordinary skill in the art to modify Meyer and Van Dort to obtain the invention as specified in claims 4, 25, and 28.

Regarding claim 5, Van Dort teaches a control function having a plurality of parameters, including an identifier of a second VP, taught as the use of an event table enabling response to a multitude of events, and destination addresses in the table to facilitate communication between devices, at col. 6, lines 43-53.

Regarding claims 6 and 7, Meyer teaches clicking on a graphical representation of the link function displayed by the machine vision UI to initiate execution of the link function, taught as the manipulation of control icons, taught at col. 6, lines 13-17.

Regarding claims 8 and 9, check boxes and radio buttons in user interfaces are extremely well known in the art, being present in simple java applets up to more complex applications. Therefore, it would have been obvious to one of ordinary skill in the art to include check boxes and radio buttons in a machine vision user interface.

Regarding claims 10-12, Van Dort teaches executing a link function in response to an external event, taught as the execution of a link function in response to events such as a person turning a knob, or temperature reaching a certain value, which may certainly be related in an industrial process, at col. 6, lines 41-43.

Regarding claim 13, the link function of Van Dort is inherently initiated by a programmatic decision, as parameters in the event table of col. 6, lines 37-53 must be at certain values before the link function is executed.

Regarding claim 14, Meyer teaches clicking on a graphical representation of the link function displayed by the machine vision UI to initiate execution of the link function, taught as the manipulation of control icons, taught at col. 6, lines 13-17.

Regarding claim 15, the link function of Van Dort is inherently included in a function execution sequence of a VP each time it is executed.

Regarding claim 16, the camera control function of Meyer allows for the control of one camera, and therefore must close communication with a previously controlled camera. See Meyer, col. 5, lines 57-67 and col. 6, lines 1-20.

Regarding claim 17, Meyer teaches the display of live images on a machine vision UI provided by a camera, which may be a first or second VP, taught as the display of live images, at col. 6, lines 10-18.

Regarding claim 20, Meyer teaches a machine vision system having a plurality of vision processors (VPs), each being on a respective VP computing platform (taught as the connection of a plurality of digital cameras to a machine vision system, at col. 4, lines 26-28; Meyer also allows for the use of various vision processors and frame grabbers at col. 2, lines 60-61), at least one machine vision user interface (UI) being on a machine vision UI computing platform (taught as the use of a Visual Basic toolbox presented to the user on a machine separate from the VPs for allowing the user control and selective communication with the multiple VPs in the machine vision system and for the viewing of live and still images from those VPs, at col. 4, lines 54-63, and col. 5, lines 4-5 and 15-20). Matrix Vision teaches the use of digital cameras similar to those used by Meyer, with the digital cameras incorporating processor power for the purpose of integrated processing.

Meyer fails to explicitly teach executing the link function so as to issue instructions from the first VP to the machine vision UI to establish communication with a second VP.

Van Dort teaches a system for equipment control wherein various units are linked over a common communication channel, which the user may interact with by way of a graphic interface connected to the system. Van Dort allows for the control of audio and video equipment at col. 1, lines 21-25. Furthermore, Van Dort teaches executing a link function so as to issue instructions from a first equipment unit to a UI to establish communication with a second equipment unit (taught as the use of an actuator connected to equipment in the system, wherein a change of state in the actuator sends a signal out to other equipment units, which may change their state in a way contained by the signal, at col. 5, lines 55-64). Furthermore, the graphic interface of Van Dort may be used to generate “mark” and “link” signals between devices, as shown at col. 10, lines 24-28.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer and Van Dort before him at the time the invention was made to modify the machine vision system of Meyer to include the equipment message transmission of Van Dort in order to obtain a machine vision system wherein VPs may send link functions capable of changing the state of other VPs.

One would be motivated to make such a combination for the advantage of flexible configuration for interactions between different pieces of equipment in a system. See Van Dort, col. 1, lines 15-18.

However, Meyer and Van Dort fail to explicitly teach the communication of the plurality of VPs and the UI over a network, necessitating that the VPs and the UI are distinct and separate and disposed on distinct and separate computing platforms. Silver teaches a method for the control of machine vision tools similar to that of Meyer and Van Dort. Furthermore, Silver teaches the communication of a plurality of VPs and a UI over a network, at col. 2, line 50 through col. 3, line 15. As Silver allows the communication of the VPs and the UI over a network, the fact that the VPs and the UI may be remotely located from one another allows for the VPs, UI and computing platforms to be distinct and separate from one another.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer, Van Dort, and Silver before him to modify the machine vision system of Meyer and Van Dort to include the networked communication of Silver. One would have been motivated to make such a combination for the advantage of increased accessibility to multiple vision processor systems. See Silver, col. 1, lines 40-46.

Meyer, Van Dort, and Silver fail to explicitly teach performing at least part of a machine vision task configured by the at least one distinct and separate machine vision UI, using at least one of the first distinct and separate VP and the any second distinct and separate VP, in

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accordance with the instructions issued by the first distinct and separate VP upon execution of the link function.

Guha teaches a web inspection system that utilizes multiple “smart cameras” similar to the vision processors of Meyer, Van Dort, and Silver. Furthermore, Guha teaches the use of pipeline vision processors that are capable of sending control signals from one smart camera to the next. See Guha, Fig. 10, col. 5, lines 19-39 and col. 1, lines 20-53.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer, Van Dort, Silver, and Guha before him at the time the invention was made to modify the vision processors of Meyer, Van Dort, and Silver to include the pipeline processing of Guha, in order to obtain vision processors capable of performing at least part of a machine vision task configured by the at least one distinct and separate machine vision UI, using at least one of the first distinct and separate VP and the any second distinct and separate VP, in accordance with the instructions issued by the first distinct and separate VP upon execution of the link function. One would have been motivated to make such a combination for the advantage of providing a balanced and robust image analysis system. See Guha, col. 2, lines 39-42.

Regarding claims 23-24, Meyer teaches clicking on a graphical representation of the link function displayed by the machine vision UI to initiate execution of the link function, taught as the manipulation of control icons, taught at col. 6, lines 13-17.

Regarding claim 26, Meyer and Van Dort have been shown *supra* to teach a graphical representation being adapted to respond to user action so as to cause a first VP to instruct a UI

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to establish communication with a second VP in the machine vision system, the communication enabling a continually updated image display on the UI representing a current state of the second VP, and enabling a user to configure the second VP using the at least one UI. See Meyer, col. 4, lines 54-63, and col. 5, lines 4-5 and 15-20 and Van Dort, col. 5, lines 55-64.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the graphical representation into a spreadsheet. Applicant has not disclosed that the incorporation of the graphical representation into a spreadsheet provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with the toolbar of Meyer because a toolbar and a spreadsheet with a graphical representation included would have similar column and row structure, and similar "point and click" functionality.

Therefore, it would have been obvious to one of ordinary skill in the art to modify Meyer and Van Dort to obtain the invention as specified in claim 26.

However, Meyer and Van Dort fail to explicitly teach the communication of the plurality of VPs and the UI over a network, necessitating that the VPs and the UI are distinct and separate and disposed on distinct and separate computing platforms. Silver teaches a method for the control of machine vision tools similar to that of Meyer and Van Dort. Furthermore, Silver teaches the communication of a plurality of VPs and a UI over a network, at col. 2, line 50 through col. 3, line 15. As Silver allows the communication of the VPs and the UI over a network, the fact that the VPs and the UI may be remotely located from one another allows for the VPs, UI and computing platforms to be distinct and separate from one another.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer, Van Dort, and Silver before him to modify the machine vision system of Meyer and Van Dort to include the networked communication of Silver. One would have been

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motivated to make such a combination for the advantage of increased accessibility to multiple vision processor systems. See Silver, col. 1, lines 40-46.

Meyer, Van Dort, and Silver fail to explicitly teach wherein at least one of the first distinct and separate VP and the any second distinct and separate VP performs at least part of a machine vision task in accordance with the instructions issued by the first distinct and separate VP, the machine vision task being configured by the at least one distinct and separate machine vision UI.

Guha teaches a web inspection system that utilizes multiple "smart cameras" similar to the vision processors of Meyer, Van Dort, and Silver. Furthermore, Guha teaches the use of pipeline vision processors that are capable of sending control signals from one smart camera to the next. See Guha, Fig. 10, col. 5, lines 19-39 and col. 1, lines 20-53.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer, Van Dort, Silver, and Guha before him at the time the invention was made to modify the vision processors of Meyer, Van Dort, and Silver to include the pipeline processing of Guha, in order to obtain vision processors wherein at least one of the first distinct and separate VP and the any second distinct and separate VP performs at least part of a machine vision task in accordance with the instructions issued by the first distinct and separate VP, the machine vision task being configured by the at least one distinct and separate machine vision UI.

Regarding claim 27, the camera control function of Meyer allows for the control of one camera, and therefore must close communication with a previously controlled camera. See Meyer, col. 5, lines 57-67 and col. 6, lines 1-20.

Regarding claim 29, it can be seen in Figs. 4 and 6 of Meyer that the graphical representation for controlling a VP is an iconic representation.

Regarding claim 30, Meyer teaches a machine vision system having a plurality of vision processors (VPs), each being on a respective VP computing platform (taught as the connection of a plurality of digital cameras to a machine vision system, at col. 4, lines 26-28; Meyer also allows for the use of various vision processors and frame grabbers at col. 2, lines 60-61), at least one machine vision user interface (UI) being on a machine vision UI computing platform (taught as the use of a Visual Basic toolbox presented to the user on a machine separate from the VPs for allowing the user control and selective communication with the multiple VPs in the machine vision system and for the viewing of live and still images from those VPs, at col. 4, lines 54-63, and col. 5, lines 4-5 and 15-20). Matrix Vision teaches the use of digital cameras similar to those used by Meyer, with the digital cameras incorporating processor power for the purpose of integrated processing.

Meyer fails to explicitly teach executing the link function so as to issue instructions from the first VP to the machine vision UI to establish communication with a second VP.

Van Dort teaches a system for equipment control wherein various units are linked over a common communication channel, which the user may interact with by way of a graphic interface connected to the system. Van Dort allows for the control of audio and video equipment at col. 1, lines 21-25. Furthermore, Van Dort teaches executing a link function so as to issue instructions from a first equipment unit to a UI to establish communication with a second equipment unit (taught as the use of an actuator connected to equipment in the system, wherein a change of state in the actuator sends a signal out to other equipment units, which may change their state in a way contained by the signal, at col. 5, lines 55-64). Furthermore, the graphic interface of

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Van Dort may be used to generate “mark” and “link” signals between devices, as shown at col. 10, lines 24-28.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer and Van Dort before him at the time the invention was made to modify the machine vision system of Meyer to include the equipment message transmission of Van Dort in order to obtain a machine vision system wherein VPs may send link functions capable of changing the state of other VPs.

One would be motivated to make such a combination for the advantage of flexible configuration for interactions between different pieces of equipment in a system. See Van Dort, col. 1, lines 15-18.

However, Meyer and Van Dort fail to explicitly teach the communication of the plurality of VPs and the UI over a network, necessitating that the VPs and the UI are distinct and separate and disposed on distinct and separate computing platforms. Silver teaches a method for the control of machine vision tools similar to that of Meyer and Van Dort. Furthermore, Silver teaches the communication of a plurality of VPs and a UI over a network, at col. 2, line 50 through col. 3, line 15. As Silver allows the communication of the VPs and the UI over a network, the fact that the VPs and the UI may be remotely located from one another allows for the VPs, UI and computing platforms to be distinct and separate from one another.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer, Van Dort, and Silver before him to modify the machine vision system of Meyer and Van Dort to include the networked communication of Silver. One would have been motivated to make such a combination for the advantage of increased accessibility to multiple vision processor systems. See Silver, col. 1, lines 40-46.

Meyer, Van Dort, and Silver fail to explicitly teach wherein at least one of the first distinct and separate VP and the any second distinct and separate VP performs at least part of a machine vision task in accordance with the instructions issued by the first distinct and separate VP, the machine vision task being configured by the at least one distinct and separate machine vision UI.

Guha teaches a web inspection system that utilizes multiple “smart cameras” similar to the vision processors of Meyer, Van Dort, and Silver. Furthermore, Guha teaches the use of pipeline vision processors that are capable of sending control signals from one smart camera to the next. See Guha, Fig. 10, col. 5, lines 19-39 and col. 1, lines 20-53.

Therefore, it would have been obvious to one of ordinary skill in the art, having the teachings of Meyer, Van Dort, Silver, and Guha before him at the time the invention was made to modify the vision processors of Meyer, Van Dort, and Silver to include the pipeline processing of Guha, in order to obtain vision processors wherein at least one of the first distinct and separate VP and the any second distinct and separate VP performs at least part of a machine vision task in accordance with the instructions issued by the first distinct and separate VP, the machine vision task being configured by the at least one distinct and separate machine vision UI.

Regarding claims 33-34, Meyer teaches user action being a mouse click upon a graphical representation, taught as the use of a Visual Basic toolbox presented to the user on a machine separate from the VPs for allowing the user control and selective communication with the multiple VPs in the machine vision system and for the viewing of live and still images from those VPs, at col. 4, lines 54-63, and col. 5, lines 4-5 and 15-20. Furthermore, the use of underlined text strings as a user manipulable graphical entity (i.e. linking from one web page to

another) is notoriously well known in the art, and would have been obvious to substitute in place of the graphical representation stated above.

Claims 22 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meyer, in view of Van Dort, further in view of Silver, further in view of Guha and further in view of Blowers et al (US Patent 6,298,474), hereinafter Blowers and further evidenced by Matrix Vision (<http://www.matrixvision.com/news/print.php?ProductID=10&lang=en>).

Meyer, Van Dort, Silver and Guha have been shown *supra* to teach a graphical representation being adapted to respond to user action so as to cause a first VP on a first VP computing platform to instruct a machine vision UI on a machine vision UI computing platform to establish communication with a second VP on a second VP computing platform, the communication enabling a continually updated image display on the machine vision UI representing the current state of the second VP, and enabling a user to configure the second VP using the machine vision UI.

Meyer, Van Dort, Silver and Guha fail to explicitly teach a network supporting TCP/IP protocol.

Blowers teaches the use of a network for vision processor/user interface communication (Column 9, Lines 26-28), where the network communicates using TCP/IP protocol (Column 6, Lines 43-45).

Therefore, it would have been obvious for one of ordinary skill in the art at the time of the invention to modify the teachings of Meyer, Van Dort, Silver and Guha with those of Blowers to obtain the machine vision system described above by Meyer, Van Dort, Silver and Guha that communicates over a network using TCP/IP network protocol.

Motivation for such a combination is given by Blowers, who states the inclusion of such configuration: "there is illustrated schematically a machine vision system generally indicated at 20 generally of the type which can be supported by the method and system of the present invention" (Column 7, Lines 40-43).

Response to Arguments

The affidavit filed on 27 September 2010 under 37 CFR 1.131 has been considered but is ineffective to overcome the Guha reference.

The evidence submitted is insufficient to establish a conception of the invention prior to the effective date of the Guha reference. While conception is the mental part of the inventive act, it must be capable of proof, such as by demonstrative evidence or by a complete disclosure to another. Conception is more than a vague idea of how to solve a problem. The requisite means themselves and their interaction must also be comprehended. See *Mergenthaler v. Scudder*, 1897 C.D. 724, 81 O.G. 1417 (D.C. Cir. 1897).

The following is a reproduction of claim 1, with emphasis added for limitations concerning the link function:

1. In a machine vision system having a plurality of distinct and separate vision processors (VPs), each VP being on a respective VP computing platform, and at least one distinct and separate machine vision user interface (UI), the at least one distinct and separate machine vision UI being on a respective distinct and separate machine vision UI computing platform, a method for instructing a machine vision UI in communication with a first distinct and separate VP to establish communication with a second distinct and separate VP, the method comprising:

providing a first distinct and separate VP with a link function, the first distinct and separate VP being on a first respective distinct and separate VP computing platform connected to a network, **the link function being a control function executable by the first distinct and separate VP**,

the link function being both for enabling a user to configure any second distinct and separate VP connected to the network using the at least one distinct and separate machine vision UI on a respective distinct and separate machine vision UI computing platform connected to the network, and for establishing

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communication via the network between the any second distinct and separate VP of the plurality of VPs and the at least one distinct and separate machine vision UI on the respective distinct and separate machine vision UI computing platform, the any second distinct and separate VP being on a second respective distinct and separate VP computing platform,

the communication via the network established by the link function enabling a continually updated image display on the at least one distinct and separate machine vision UI representing a current state of the any second distinct and separate VP connected to the network;

executing the link function so as to issue instructions via the network from the first distinct and separate VP to the distinct and separate machine vision UI to establish communication via the network with the any second distinct and separate VP; and

performing at least part of a machine vision task configured by the at least one distinct and separate machine vision UI, using at least one of the first distinct and separate VP and the any second distinct and separate VP, in accordance with the instructions issued by the first distinct and separate VP upon execution of the link function.

Applicant has provided as evidence to conception of the claimed link function a time-stamped screen shot indicating that on 6 October 2000 the comment "Add Link function" was entered into a source control system data file. However, no specific demonstrative evidence exists capable of proving that the commented Link function is anything more than a vague idea; no specific evidence has been provided proving that the commented Link function was indeed capable of performing in the specific manner set forth in claim 1. The source control system data file provides no evidence as to the functionality of the Link function referred to on 6 October 2000, and is therefore incapable of providing proof of conception of the claimed link function.

As the affidavit is ineffective to overcome the Guha reference, the examiner maintains the rejection of the claims as set forth above.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL ROSWELL whose telephone number is (571)272-4055. The examiner can normally be reached on 9:30 - 6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu Vu can be reached on (571) 272-4057. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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